FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES
SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

BIWEEKLY 2006-24

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U.S. Department of Transportation
Federal Aviation Administration
Regulatory Support Division
Delegation and Airworthiness Programs Branch, AIR-140
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SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability

Info: E - Emergency; COR - Correction; S - Supersedes; R - Revision; - See AD for additional information;

Biweekly 2006-01

2005-26-10		Engine Components Inc.	Appliance: Engine Cylinder Assemblies
2005-26-11		DG Flugzeugbau GmbH	Sailplane: DG-800B and DG-500MB
2005-26-12	S 2004-08-13	Burkhardt Grob Luft-Und Raumfahrt Gmbh & Co Kg	Sailplane: G103 Twin Astir, G103 Twin II, G103A Twin 11 Acro, G103C Twin III Acro, and G 103 Twin III SL
2005-26-13	S 2002-22-11	Turbomeca	Engine: Artouste III B, B1, and D turboshaft
2005-26-14		Burkhardt Grob Luft-Und Raumfahrt Gmbh & Co Kg	Sailplane: G103 Twin Astir
2005-26-53	E	Pacific Aerospace Corporation	750XL

Biweekly 2006-02

2001-08-14R1	R 2001-08-14	Turbomeca S.A.	Engine: Arrius Models 2B, 2B1, and 2F
2005-24-10		American Champion Aircraft Corp.	7ECA, 7GCAA, 7GCBC, 8KCAB, and 8GCBC, 7AC, 7ACA, S7AC, 7BCM, 7CCM, S7CCM, 7DC, S7DC, 7EC, S7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KC, 7KCAB, 8KCAB, and 8GCBC
2005-26-53		Pacific Aerospace Corporation Ltd.	750XL
2006-01-05	S 87-12-05	Honeywell International Inc.	Engine: T5309, T5311, T5313B, T5317A, T5317A-1, and T5317B series turboshaft, T53-L-9, T53-L-11, T53-L-13B, T53-L-13BA, T53-L-13B S/SA, T53-L-13B S/SB, T53-L-13B/D, and T53-L-703 series turboshaft
2006-01-11		Cessna	208 and 208B
2006-02-51	E	Raytheon	390

Biweekly 2006-03

2006-02-08		Turbomeca	Engine: Arriel 1B, 1D, 1D1, and 1S1
2006-02-12		DG Flugzeugbau GmbH and Glaser-Dirks Flugzeugbau GmbH	Sailplane: DG–100, DG–400, DG–500 Elan Series, and DG–500M
2006-02-51	FR	Raytheon	390

Biweekly 2006-04

2006-02-12	COR	Glaser-Dirks Flugzeugbau GmbH	Sailplane: DG-100, DC-400, DG-500 Elan, and DG-500M
2006-03-08		Aero Advantage	Appliance: Vacuum Pumps
2006-03-17		Polskie Zaklady Lotnicze	PZL M26 01

Biweekly 2006-05

2006-04-15		Turbomeca	Engine: Turbomeca Artouste III B, Artouste III B1, and Artouste III D turboshaft

Biweekly 2006-06

2006-01-11 R1	R 2006-01-11	Cessna	208 and 208B
2006-05-05		MT-Propeller Entwicklung GmbH	Propeller: MT, MTV-1, MTV-2, MTV-3, MTV-5, MTV-6, MTV-7, MTV-9, MTV-10, MTV-11, MTV-12, MTV-14, MTV-15, MTV-17, MTV-18, MTV-20, MTV-21, MTV-22, MTV-24, and MTV-25
2006-06-01		Eurocopter France	Rotorcraft: EC 155B and B1
2006-06-02		Eurocopter France	Rotorcraft: SA-365N, SA365N1, AS-365N2, and SA-366G1
2006-06-06	S 2005-07-01	Cessna	208 and 208B
2006-06-51	E	General Electric	Engine: CT7-8A

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Biweekly 2006-07

2005-13-09	COR	GROB-WERKE	G120A
2006-06-16		Lycoming Engines	Engine: AEIO–360–A1B6, AEIO–360–A1E6, IO–360–A1B6, IO–360–A1B6D, IO–360–A3B6, IO–360–A3B6D, IO–360–C1C6, IO–360–B1G6, IO–360–C1G6, IO–360–C1E6, LO–360–A1G6D, LO–360–A1H6, O–360–A1F6, O–360–A1F6D, O–360–A1G6D, O–360–A1H6, O–360–E1A6D, O–360–F1A6, IO–360–C1D6, LIO–360–C1E6, LO–360–E1A6d, LIO–360–C1D6
2006-06-17		Turbomeca	Engine: Arriel 1B, 1D, and 1D1 certain turboshaft
2006-07-06		Cirrus Design Corporation	SR20, SR22

Biweekly 2006-08

2006-06-06	COR S 2005-07-01	Cessna	208 and 208B
2006-07-15	S 2003-07-01	Thrush Aircraft Inc.	S–2R, S2R–G1, S2R–R1820, S2R–T15, S2R–T34, S2R–G10, S2R–G5, S2R–G6, S2RHG–T65, S2R–R1820, S2R–T34, S2R–T45, S2R–T65, 600 S2D, S–2R, S2R–R1340, S2R–R3S, S2R–T11, S2R–G1, S2R–G10, S2R–T34, S2R–G1, S2R–G10, S2R–G6, S2RHG–T34, S2R–T15, S2R–T34, S2R–T45, S–2R
2006-07-20		Turbomeca	Engine: Makila 1 A2 turboshaft
2006-08-01	S 97-24-09	BURKHART GROB LUFT- UND RAUMFAHRT GMBH & CO. KG	Sailplane:G 103 C Twin III SL
2006-08-06		Eurocopter France	Rotorcraft: SA-360C, SA-365C, SA-365C1, and SA-365C2

Biweekly 2006-09

2002-11-05-R1	R 2002-11-05	Air Tractor	AT-501
2006-06-51	FR	General Electric	Engine: CT7-8A
2006-07-15	COR S 2003-07-01	Thrush Aircraft Inc.	S–2R, S2R–G1, S2R–R1820, S2R–T15, S2R–T34, S2R–G10, S2R–G5, S2R–G6, S2RHG–T65, S2R–R1820, S2R–T34, S2R–T45, S2R–T65, 600 S2D, S–2R, S2R–R1340, S2R–R3S, S2R–T11, S2R–G1, S2R–G10, S2R–T34, S2R–G1, S2R–G10, S2R–G6, S2RHG–T34, S2R–T15, S2R–T34, S2R–T45, S–2R
2006-08-07		Brantly Helicopter	Rotorcraft: B-2, B-2A, and B-2B
2006-08-08		Air Tractor	AT-400, AT-401, AT-401B, AT-402, AT-402A, and AT-402B
2006-08-09		Air Tractor	AT-802A
2006-08-11		Pilatus	PC-12 and PC-12/45
2006-08-12	S 2001-24-51	MD Helicopters	Rotorcraft: 600N
2006-08-13		Pratt & Whitney Canada	Engine: PW535A

Biweekly 2006-10

2002-11-05-R1	COR R 2002-11-05	Air Tractor	AT-501
2006-08-08	COR	Air Tractor	AT-400, AT-401, AT-401B, AT-402, AT-402A, and AT-402B
2006-08-09	COR	Air Tractor	AT-802 and AT-802A
2006-09-10		Eurocopter France	Rotorcraft: SA-365 N1, AS-365 N2, N3, SA 366 G1, and EC-155B and B1

Biweekly 2006-11

2006-01-11 R1	COR R 2006-01-11	Cessna	208 and 208B
2006-06-06	COR S 2005-07-01	Cessna	208 and 208B
2006-10-21		Engine Components Inc.	Appliance: Engine Connecting Rods

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Biweekly 2006-12

2003-21-09 R1	R 2003-21-09	Eurocopter France	Rotorcraft: AS355E, F, F1, F2, and N
2006-11-14		Sikorsky	Rotorcraft: S-92A
2006-11-16	S 98-22-11	Honeywell International Inc.	Engine: T5311A, T5311B, T5313B, T5317A, T5317A-1, and T5317B series, T53-L-11B, T53-L-11D, T53-L-13B, T53-L-13B/D, and T53-L-703 series turboshaft
2006-11-17		Eurocopter France	Rotorcraft: AS350B, BA, B1, B2, B3, C, D, and D1
2006-11-18		Pacific Aerospace Corporation Ltd.	750XL
2006-11-19		DORNIER LUFTFAHRT GmbH	228-100, 228-101, 228-200, 228-201, 228-202, and 228-212
2006-12-07	S 2005-26-10	Engine Components Inc.	Appliance: Engine Cylinder Assemblies

Biweekly 2006-13

68-17-03R1	R 68-17-03	Pilatus Aircraft Ltd.	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, and PC-6/C1-H2
2006-10-19		Eurocopter France	Rotocraft: EC130 B4
2006-10-21	COR	Engine Components Inc.	Appliance: Engine Connecting Rods
2006-12-25		General Machine - Diecron, Inc.	Appliance: Actuator Nut Assembly
2006-13-05	S 2005-26-53	Pacific Aerospace Corp. Ltd.	750XL
2006-13-06		Rolls-Royce Corp.	Engine: 250-B17, -B17B, -B17C, -B17D, -B17E, -B17F, -B17F/1, -B17F/2, 250-C18, -C20, -C20B, -C20F, -C20J, -C20R, -C20R/1, -C20R/2, -C20R/4, -C20S, and "C20W series turboprop and turboshaft
2006-13-11	S 2002-21-08	Pilatus Aircraft Ltd.	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, and PC-6/C1-H2
2006-13-12	S 98-12-01	Pilatus Aircraft Ltd.	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, and PC-6/C1-H2

Biweekly 2006-14

2006-13-10	S 92-07-05	Raytheon Aircraft Company	See AD
2006-13-14		Bell Helicopter Textron	Rotorcraft: 222, 222B, 222U, 230 and 430
2006-13-15		Mitsubishi Heavy Industries	MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-26A, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, MU-2B-60
2006-14-03		Honeywell International Inc.	Engine: TPE331-1, -1U, -1UA, -2, -2UA, -3U, -3UW, -3W, -5, -5A, -5AB, -5B, -5U, -6, -6A, -6U, -8, -8A, -9, -9U, -10, -10A, -10AV, -10B, -10G, -10GP, -10GR, -10GT, -10J, -10N, -10P, -10R, -10T, -10U, -10UA, -10UF, -10UG, -10UGR, -10UJ, -10UK, -10UR, -11U, -11UA, -12, -12B, -12JR, -12UA, -12UAR, -12UER, and -12UHR series turboprop and TSE331-3U model turboshaft

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Biweekly 2006-15

2006-14-08		Mitsubishi Heavy Industries	MU–2B–26A, MU–2B–36A, MU–2B–40, and MU–2B–60
2006-15-01		Twin Commander Aircraft Corporation	690, 690A, and 690B
2006-15-02	S 2003-09-01	Pilatus Aircraft Ltd.	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, and PC-6/C1-H2
2006-15-03	S 2003-13-04	Pilatus Aircraft Ltd.	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, and PC-6/C1-H2
2006-15-07		Mitsubishi Heavy Industries, LTD.	MU–2B, MU–2B–10, MU–2B–15, MU–2B–20, MU–2B–25, MU–2B–26, MU–2B–26A, MU–2B–30, MU–2B–35, MU–2B–36, MU–2B–36A, MU–2B–40, and MU–2B–60
2006-15-08		Honeywell International Inc.	Engine: TPE331-1, -2, -2UA, -3U, -3UW, -5, -5A, -5AB, -5B, -6, -6A, -10, -10AV, -10GP, -10GT, -10P, -10R, -10T, -10U, -10UA, -10UF, -10UG, -10UGR, -10UR, -11U, -12JR, -12UA, -12UAR, and -12UHR turboprop

Biweekly 2006-16

2004-16-15 R1	R 2004-16-15	Eurocopter France	Rotorcraft: AS-365N2, AS 365 N3, EC 155B, EC155B1, SA-365N, N1, and SA-366G1
2006-15-14		Eurocopter Canada Limited	Rotorcraft: BO 105 LS A-3
2006-15-19		Sikorsky Aircraft Corporation	Rotorcraft: S-92A
2006-16-04	S 2004-24-04	Rolls-Royce Corporation	Engine: 250-B and 250-C series turboshaft and turboprop

Biweekly 2006-17

2006-02-08R1	R 2006-02-08	Turbomeca	Engine: Arriel 1B, 1D, 1D1, and 1S1
2006-16-13		Pilatus Aircraft Ltd.	PC-12 and PC-12/45
2006-16-19		B-N Group Ltd.	BN-2, BN-2A, BN-2B, BN-2T, and BN-2T-4R series
2006-16-20		DG Flugzeugbau GmbH	Sailplane: DG-1000S
2006-17-01		Mitsubishi Heavy Industries	MU-2B, MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-26A, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, and MU-2B-60
2006-17-02	S 84-09-05	Grob-Werke	Sailplane: G102 ASTIR CS
2006-17-03		Stemme GmbH & Co. KG	Sailplane: S10, S10-V, and S10-VT
2006-17-04		Cessna	172R, 172S, 182T, T182T, 206H, and T206H
2006-17-05		Mitsubishi Heavy Industries	MU-2B, MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-26A, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, and MU-2B-60
2006-17-51	E	Agusta S.p.A.	Rotorcraft: AB139

Biweekly 2006-18

2006-16-13	COR	Pilatus Aircraft Ltd	PC-12 and PC-12/45
2006-16-18		Sandel Avionics Incorporated	Appliance: Terrain awareness warning system/radio magnetic indicator (TAWS/RMI) units
2006-17-51	FR	Agusta S.p.A.	Rotorcraft: AB139
2006-18-01	S 2004-23-15	MD Helicopters, Inc.	Rotorcraft: MD900
2006-18-51	E	Raytheon	1900, 1900C, and 1900D

Biweekly 2006-19

2006-18-15		Hartzell Propeller Inc.	Propeller: ( )HC-( )2Y( )-( ) series
2006-18-16		Raytheon	390
2006-18-51	FR	Raytheon	1900, 1900C (C-12J), 1900D
2006-19-01		Eurocopter France	Rotorcraft: AS350B, B1, B2, B3, BA, D, and AS355E
2006-19-05		See AD	Rotorcraft: HH-1K, TH-1F, TH-1L, UH-1A, UH-1B, UH-1E, UH-1F, UH-1H, UH-1L, UH-1P, and SW204, SW204HP, SW205, and SW205A-1

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Biweekly 2006-20

2006-19-08		Stemme GmbH & Co. KG	Sailplane: S10-VT
2006-19-09		Raytheon	B300
2006-19-10	S 2005-17-19	Cirrus Design Corporation	SR20 and SR22
2006-19-11		Gippsland Aeronautics Pty. Ltd.	GA8
2006-20-07		Rolls-Royce	Engine: 250-C30, -C30G, -C30G/2, -C30M, -C30P, -C30R, -C30R/1, -C30R/3, -C30R/3M, -C30S, -C30U, -C40B, -C47B, and -C47M turboshaft
2006-20-09		Lycoming Engines	Engine: (L)O-360, (L)IO-360, AEIO-360, O-540, IO-540, AEIO-540, (L)TIO-540, IO-580, and IO-720 series reciprocating
2006-20-10		Air Tractor, Inc.	AT-802 and AT-802A

Biweekly 2006-21

2006-20-13		Fuji Heavy Industries, Ltd.	FA-200 series
2006-21-03		Cirrus Design Corporation	SR20, SR22

Biweekly 2006-22

2006-21-10		Turbomeca	Engine: Arriel 2B, 2B1, and 2B1A turboshaft
2006-21-11		Turbomeca	Engine: Turmo IV A and IV C series turboshaft
2006-21-12	S 2003-22-13	AeroSpace Technologies of Australia Pty Ltd	N22B, N22S, and N24A
2006-22-05	S 2003-04-06	Various Aircraft	SEE AD
2006-22-08		Air Tractor, Inc.	AT-602, AT-802, and AT-802A
2006-22-10		Schempp-Hirth Gmbh & Co. KG	Sailplane: Mini-Nimbus B and Mini-Nimbus HS-7
2006-22-11		EADS SOCATA	TBM 700
2006-22-12	S 2004-21-01	Hartzell Propeller Inc	Propeller: HC-B5MP-3( )/M10282A( )+6 and HC-B5MP-3( )/M10876( )( )( )( ) five-bladed

Biweekly 2006-23

2006-23-01		Pilatus Aircraft Ltd	PC-7
2006-23-02		Raytheon Aircraft Company	C90A, B200, B200C, B300, and B300C
2006-23-03		B-N Group Ltd.	BN-2, BN-2A, BN-2B, BN-2T, and BN-2T-4R
2006-23-04		Diamond Aircraft Industries	DA 40
2006-23-08		Societe de Motorisations Aeronautiques	Engine: SMA SR305-230 and SR305-230-1 reciprocating
2006-23-09		Air Tractor Inc.	AT-602

Biweekly 2006-24

2006-23-14		Air Tractor Inc.	AT-502 and AT-502B, AT-502A, AT-602, AT-802 and AT-802A
2006-23-17	S, 2003-11-09	Turbomeca	Engine: Turmo IV A and IV C series turboshaft

2006-23-14 Air Tractor, Inc.: Amendment 39-14826; Docket No. FAA-2006-25260; Directorate Identifier 2006-CE-37-AD.

Effective Date

(a) This AD becomes effective on December 21, 2006.

Affected ADs

(b) None.

Applicability

(c) This AD affects the following airplane models and serial numbers that are certificated in any category:

Model	Serial Numbers
(1) AT-502 and AT-502B	502/502B-0003 through 502/502B-2600
(2) AT-502A	502A-0003 through 502A-2582
(3) AT-602	602-0337 through 602-1138
(4) AT-802 and AT-802A	802/802A-0001 through 802/802A-0215

Unsafe Condition

(d) This AD results from two reports (one Model AT-602 airplane and one Model AT-802A airplane) of in-flight rudder separations at the upper attach hinge area and other reports of Models AT-502B, AT-602, and AT-802/802A airplanes with loose hinges, skin cracks, or signs of repairs to the affected area. We are issuing this AD to detect and correct loose fasteners; any cracks in the rudder or vertical fin skins, spars, hinges or brackets; and/or corrosion of the rudder and vertical fin hinge attaching structure. Hinge failure adversely affects ability to control yaw and has led to the rudder folding over in flight. This condition could allow the rudder to contact the elevator and affect ability to control pitch with consequent loss of control.

Compliance

(e) To address this problem, you must do the following:

Actions	Compliance	Procedures
(1) Inspect visually the rudder and vertical hinge attachment for loose fasteners; and inspect the rudder or vertical fin skins, spars, hinges or brackets for cracks and/or corrosion.	Initially inspect upon reaching 3,500 hours time-in-service (TIS), or within the next 100 hours TIS after December 21, 2006 (the effective date of this AD), whichever occurs later, unless already done. Thereafter, repetitively inspect every 100 hours TIS. Installation of the external doubler at the upper rudder hinge required by paragraph (e)(2)(ii) or (e)(3) of this AD is terminating action for the repetitive inspections required by this AD.	Follow Snow Engineering Co. Service Letter #247, dated August 14, 2005, revised May 17, 2006.
(2) If you find any damage as a result of any inspection required by paragraph (e)(1) of this AD, you must: (i) Replace any damaged parts with new parts; and (ii) Do the installation of the external doubler at the upper rudder hinge.	Before further flight after any inspection required by paragraph (e)(1) of this AD where you find any damaged parts. The installation of the external doubler at the upper rudder hinge required by paragraph (e)(2)(ii) or (e)(3) of this AD is the terminating action for the repetitive inspections required by this AD.	Follow Snow Engineering Co. Service Letter #247, dated August 14, 2005, revised May 17, 2006, and Snow Engineering Co. Process Specification Number 145, dated December 6, 1991.
(3) Do the installation of the external doubler at the upper rudder hinge.	Upon accumulating 5,000 hours TIS or within the next 100 hours TIS after the effective date of this AD, whichever occurs later, unless already done. The installation of the external doubler at the upper rudder hinge required by paragraph (e)(2)(ii) or (e)(3) of this AD is the terminating action for the repetitive inspections required by this AD.	Follow Snow Engineering Co. Service Letter #247, dated August 14, 2005, revised May 17, 2006, and Snow Engineering Co. Process Specification Number 145, dated December 6, 1991.
(4) Do not install any rudder without the external doubler at the upper rudder hinge required by paragraph (e)(3) of this AD.	As of December 21, 2006 (the effective date of this AD).	Not Applicable.

Alternative Methods of Compliance (AMOCs)

(f) The Manager, Fort Worth Aircraft Certification Office, FAA, ATTN: Andrew McAnaul, Aerospace Engineer, ASW-150 (c/o MIDO-43), 10100 Reunion Place, Suite 650, San Antonio, Texas 78216; telephone: (210) 308-3365; fax: (210) 308-3370, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19.

Material Incorporated by Reference

(g) You must use Snow Engineering Co. Service Letter 247, dated August 14, 2005, revised May 17, 2006; and Snow Engineering Co. Process Specification Number 145, dated December 6, 1991, to do the actions required by this AD, unless the AD specifies otherwise.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) For service information identified in this AD, contact Air Tractor, Inc., P.O. Box 485, Olney, Texas 76374; telephone: (940) 564-5616; fax: (940) 564-5612.

(3) You may review copies at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Issued in Kansas City, Missouri, on November 3, 2006.
James E. Jackson,
Acting Manager, Small Airplane Directorate, Aircraft Certification Service.
[FR Doc. E6-19153 Filed 11-15-06; 8:45 am]

2006-23-17 Turbomeca: Amendment 39-14829. Docket No. FAA-2006-25970; Directorate Identifier 99-NE-12-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective December 21, 2006.

Affected ADs

(b) This AD supersedes AD 2003-11-09, Amendment 39-13168.

Applicability

(c) This AD applies to Turbomeca Turmo IV A and IV C series turboshaft engines. These engines are installed on but not limited to Aerospatiale SA 330–PUMA helicopters.

Unsafe Condition

(d) This AD results from Turbomeca's review of the engines' service experience that determined more frequent borescope inspections are required on engines not modified to the TU 191, TU 197, or TU 224 standard. The actions specified in this AD are intended to prevent centrifugal compressor intake wheel blade cracks, which can result in engine in-flight power loss, engine shutdown, or forced landing.

Compliance

(e) You are responsible for having the actions required by this AD performed within the compliance times specified unless the actions have already been done.

Engine Modification Before Further Flight

(f) For engines modified to the TU 197 standard, but not to the TU 191 or TU 224 standard, before further flight, remove the TU 197 standard and install the TU 224 standard.

Initial Inspections

(g) For all engines, borescope-inspect, and either eddy current-inspect (ECI) or ultrasonic-inspect (UI) the centrifugal compressor intake wheel blades using paragraphs 2.B.(1)(a) through 2.B.(1)(g) of Turbomeca Mandatory Service Bulletin A249 72 0100, Update No. 5, dated February 25, 2005, and the criteria in the following Table 1:

Table 1.–Inspection Criteria

If engine modification level is:	Then borescope-inspect centrifugal compressor intake wheel blades:	Were traces of corrosion found at borescope-inspection?	Then confirm corrosion by performing ECI or UI within:
(1) Pre TU 191 and Pre TU 224.	Within 200 flight hours-since-last inspection.	(i) Yes	Six months-or 50 flight hours-since-borescope inspection, whichever occurs first.
		(ii) No	Two hundred flight hours-since-borescope inspection.
(2) Post TU 191 or Post TU 224.	Within 1,000 flight hours-since-last inspection.	(i) Yes	Six months-or 50 flight hours-since-borescope inspection, whichever occurs first.
		(ii) No	One thousand flight hours-since-borescope inspection.

(h) Thereafter, perform repetitive inspections using the criteria in Table 1 of this AD.

(i) Remove centrifugal compressor intake wheel blades confirmed cracked or pitted.

Alternative Methods of Compliance

(j) The Manager, Engine Certification Office, has the authority to approve alternative methods of compliance for this AD if requested using the procedures found in 14 CFR 39.19.

Material Incorporated by Reference

(k) You must use Turbomeca Mandatory Service Bulletin A249 72 0100, Update No. 5, dated February 25, 2005, to perform the actions required by this AD. The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You can get a copy of this service information from Turbomeca, 40220 Tarnos, France; telephone 33 05 59 74 40 00, fax 33 05 59 74 45 15. You may review copies at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal-register/cfr/ibr-locations.html.

Related Information

(l) Direction Generale de L'Aviation Civile airworthiness directive F-2005-037, dated March 2, 2005, also addresses the subject of this AD.

Issued in Burlington, Massachusetts, on November 7, 2006.
Peter A. White,
Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.
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